

SUPPLEMENT

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

SUMMER MEETING, LONDON

27th JUNE, 1960

2.45 p.m.

The 1960 Viscount Nuffield Lecture at the Royal Institution, Albemarle Street, London, W.1.

Speaker: Sir Stanley Rawson

Subject: Machine Tool Development and the National Economy, with special emphasis on future trends.

Tickets of admission may be obtained from the Secretary of The Institution.

7.30 p.m. to midnight

The President's Reception and Conversazione for members and their ladies will be held at The Royal Festival Hall, London, from 7.30 p.m. on Monday evening, 27th June, 1960.

The programme will include dancing, concerts in the Auditorium by the Band of The Life Guards, cabaret by well-known artists, and other attractions which are being planned for the entertainment of members and their ladies and guests. Supper will be served in the restaurants at intervals throughout the evening, and bars will be available in the Foyer and on the fourth floor level, until midnight.

The Institution has the use of the entire Hall for the evening and is fortunate to obtain such a magnificent venue for this function. The Royal Festival Hall has six levels; the open air roof gardens on the sixth floor level as well as the terraces on the second level will be open during the evening.

The price of the tickets — £3 3s. 0d. — is inclusive, with the exception of drinks. Dress will be dinner jackets or evening dress with decorations.

Application forms for tickets for both the 1960 Viscount Nuffield Papers and the President's Reception and Conversazioni appear overleaf.

APPLICATION FORM

To: The Secretary,
The Institution of Production Engineers,
10 Chesterfield Street,
Mayfair, London, W.1.

DATE RECEIVED AT HEAD OFFICE

MEMBER/NON MEMBER

SUMMER MEETING — 27th JUNE 1960

CONVERSAZIONE

1. NAME.....
2. GRADE.....
3. HONOURS, DEGREES, OTHER QUALIFICATIONS.....
4. ADDRESS.....
5. NAME OF COMPANY.....
6. POSITION HELD.....
 * shall be accompanied by my wife
 * I shall be accompanied by the following guest(s)
 7. Name.....
 Address.....
 Company..... Position held.....
8. Name.....
 Address.....
 Company..... Position held.....

(names of further guests may be shown on an additional sheet)

Please note that cheques, etc., should be made payable to "The Institution of Production Engineers". Receipts will not be issued. Tickets and Programmes will be sent in good time.

"MACHINE TOOL CONTROL SYSTEMS"

SYMPOSIUM — College of Aeronautics, Cranfield — August, 1960.

The Institution of Production Engineers is planning to hold a Residential Symposium on "Machine Tool Control Systems" at the College of Aeronautics, Cranfield, from 24th - 28th August, 1960.

Papers will be given on "Automatic Sizing and Positioning"; "Applications of Control Systems to Jobbing, Batch and Quantity Production"; "Economics of Cutting Processes" and "Design of Machine Tools". The speakers will include Mr. Stafford Beer; Dr. F. Koenigsberger; and Professor J. Loxham and Professor Whitfield of the College of Aeronautics. Demonstrations and exhibitions of equipment are also being arranged.

Further particulars, together with an application form, will appear in the May issue of the Supplement.

POSTGRADUATE COURSE IN PRODUCTION ENGINEERING

The Department of Mechanical Engineering, Imperial College of Science and Technology, announces the commencement of a full-time course in Production Engineering in October, 1960. The course will be of one year's duration and successful candidates will be awarded the D.I.C.

Prospective entrants should possess a degree or equivalent, together with some practical experience. Further details and applications for admission should be made to: The Registrar, Imperial College of Science and Technology, South Kensington, London, S.W.7.

To: The Secretary,
The Institution of Production Engineers,
10 Chesterfield Street,
Mayfair, London, W.1.

THE 1960 VISCOUNT NUFFIELD PAPER

Please send me, when available ticket(s) for the meeting at The Royal Institution, Albemarle Street, London, W.1., on Monday, 27th June, 1960, at 2.45 p.m.

NAME.....

PLEASE

WRITE

CLEARLY

ADDRESS.....

OPERATIONAL RESEARCH SEMINAR - 19th/20th April, 1960

A special two-day seminar on Operational Research is being presented at the Institution's Headquarters, in April, by Professor R. W. Shephard, of The University of California.

The programme will cover the following aspects of Operational Research :

Linear Programming
Non-Linear Programming

Dynamic Programming
Waiting Line Analysis

Practical examples will be demonstrated and problems presented. An advanced knowledge of mathematics is not required.

In order that the seminar may be of greatest value to delegates, the numbers will be strictly limited, and those wishing to attend are advised to make early application for places to: The Secretary of the Institution, 10 Chesterfield Street, Mayfair, London, W.1.

The fee to members of the Institution is £4 4s. 0d., and to non-members £5 5s. 0d. All remittances should be made payable to "The Institution of Production Engineers".

FACTORY PLANNING SEMINAR - 7th/8th June, 1960

A special two-day seminar on Factory Planning is being presented at the Institution's Headquarters in June.

The programme will cover the objectives of factory planning; factory planning procedures and techniques; making decisions in developing a plan.

In order that the seminar may be of the greatest value to delegates, the numbers will be strictly limited, and those wishing to attend are advised to make early application for places and further details to the Secretary of the Institution, 10 Chesterfield Street, Mayfair, London, W.1.

The fee to members of the Institution is £4 4s. 0d. and to non-members £5 5s. 0d. All remittances should be made payable to "The Institution of Production Engineers".

B.P.C. VARIETY REDUCTION SEMINARS — 1959/60 SEASON

Members of The Institution of Production Engineers are cordially invited to attend the Variety Reduction Seminars being organised during 1960 by Local Productivity Committees and Associations.

During April, meetings will be held in Liverpool, on 5th and 6th April (local Secretary: Mr. P. C. Lloyd, J. B. Hughes & Lloyd, 3 Fenwick Street, Liverpool, 2); and in Harrow, on 20th and 21st April (local Secretary: Mr. A. G. Sells, Department Superintendent, Industrial Engineering Department, Kodak Ltd., Wealdstone, Middlesex).

During May and June, meetings will be held in Plymouth, on 3rd and 4th May (local Secretary: Mr. J. Pedley, Transport and General Workers Union District Organiser, 5 Devonshire Villas, Pennycomequick, Plymouth); in Newcastle, on 30th and 31st May (local Secretary: Mr. P. R. Walton, Tyneside Productivity Committee, 18 Ridley Place, Newcastle-upon-Tyne, 1); and in South London on 14th and 15th June (local Secretary: Mr. J. S. Jones, Samuel Jones & Co. Ltd., Camberwell, S.E.15).

Fuller details of these meetings may be obtained from the local Secretaries referred to above.

CONFERENCE OF ENGINEERS RESPONSIBLE FOR STANDARDS

The 1960 Conference of Engineers Responsible for Standards, organised by a Joint Committee of the Institution of Production Engineers and the British Standards Institution, will be held at the Connaught Rooms, Great Queen Street, London, W.C.2, on Wednesday, 11th May.

The morning session will discuss two main subjects:

1. The practical problems met with in applying British Standards in the firm.
2. The place of standards in production and quality control.

The Conference will resume after lunch with a report on the proposal made at last year's Conference for the establishment in the United Kingdom of an association to bring together those concerned with standards; the report will then be open for discussion.

Finally, a speaker from British Standards Institution will introduce the question of inch and metric sizes in international standards work and outline some of the problems and developments on standards in the European Common Market and the Free Trade Association.

Tickets for the Conference, including Luncheon, cost 35s. 0d. and may be obtained by completing and returning the application form below.

Registration Form

STANDARDS ENGINEERS' CONFERENCE, 11th May, 1960.

Connaught Rooms, London

TICKETS: 35s. 0d. each

Please complete and return this form to:-

**THE SECRETARIAT,
IProd.E./B.S.I. COMMITTEE,
BRITISH STANDARDS HOUSE,
2 PARK STREET, LONDON, W.1.**

Name of Delegate	Position in Organisation
Name of Delegate	Position in Organisation
Name of Delegate	Position in Organisation
Name of Delegate	Position in Organisation
Name of Delegate	Position in Organisation
Name of Delegate	Position in Organisation

Amount of remittance enclosed*

Signed

Organisation

Address

*Ticket(s) will be sent in lieu of receipt

Please make cheques payable to the British Standards Institution.

SOCIAL FUNCTIONS

SOUTH EASTERN REGIONAL MEETING

Members are asked to note that the arrangements for the **1960 South Eastern Regional Meeting**, which is to take place on **Thursday, 21st April, 1960**, at The Royal Commonwealth Society's Hall, Northumberland Avenue (Craven Street entrance), London, W.C.2, have been slightly amended.

The meeting will now commence at **7.30 p.m.**, and the speaker will be **Mr. E. W. Spencer**, Chief Planning Engineer of John Laing & Son Ltd. The subject remains the same:

"MODERN PLANNING AND PROGRESS IN THE BUILDING CONTRACTING INDUSTRY"

LEEDS SECTION

The **Section Annual Dinner** is to be held on **30th April, 1960**, at **The Griffin Hotel, Leeds**. The principal guests will include the Lord Mayor of Leeds; Sir Donald Kaberry, T.D., M.P., Bart.; Mr. A. Yorke-Saville; and the President of the Institution.

Tickets, price **27/6** each, may be obtained from: The Honorary Secretary, Mr. J. Keightley, 42 Kingsley Avenue, Adel, Leeds, 16, to whom cheques should be made payable.

MIDLANDS REGION

The **Sixth Annual Dinner** of the Midlands Region will take place at the **Queen's Hotel, Birmingham**, on **Friday, 29th April, 1960**, at **6.45 p.m.** for **7.15 p.m.**

The principal guests will be **Sir Bertram Waring, D.L.**, Chairman and Managing Director of Joseph Lucas (Industries) Ltd., and Vice-Chairman, British Productivity Council; and **Mr. A. A. Part, C.B., M.B.E.**, Under Secretary for Further Education, Ministry of Education.

Further details and tickets, price **£2 2s. 0d.** each (Graduates of the Institution **£1 12s. 0d.**), may be obtained from Mr. E. Percy Edwards, White House, 111 New Street, Birmingham, 2.

NORTH WESTERN REGION

The **Annual Dinner** of the Region will take place on **6th May, 1960**, at **The Midland Hotel, Manchester**, at **7.15 p.m.** for **7.45 p.m.**

The principal guests include The Rt. Worshipful the Lord Mayor of Manchester; Mr. E. J. Erroll, M.P.; the President of the Institution; Dr. C. Whitworth, Principal, Royal Technical College, Salford; Dr. B. V. Bowden, Principal, Manchester College of Science and Technology; the Chairman and Vice-Chairman of Council; and the Secretary of the Institution.

Tickets, price **35/-** each, may be obtained from the following:

Manchester: Mr. J. G. McLean, "Pinewood", 53 Broad Road, Sale, Cheshire.

Preston: Mr. W. H. Preston, 25 Clifton Avenue, Leyland, Lancashire.

Liverpool: Mr. H. Mason, 51 Stairhaven Road, Liverpool, 19.

Stoke-on-Trent: Mr. H. A. Armstrong, Crewe Cottage, Haslington, Crewe, Cheshire.

Applications should be made not later than **8th April** and cheques should be made payable to "The Institution of Production Engineers".

SECTION MEETINGS

Visitors' Tickets may be obtained from Section Honorary Secretaries

APRIL, 1960

EAST AND WEST RIDINGS REGION

Leeds 6.30 p.m. April 30th
Griffin Hotel, Leeds.
Annual Dinner.

MIDLANDS REGION

Regional Meeting 7 p.m. April 7th
Sibree Hall, Coventry.
"Factory Design for the Future" by W. Allen, B.Arch., A.R.I.B.A. (Chief Architect, The Building Research Station, D.S.I.R., Watford).
Birmingham 7 p.m. April 20th
James Watt Memorial Institute.
The Chairman's Paper.
"Meeting a Challenge" by J. Silver, M.I.Prod.E., A.M.B.I.M., preceded by the Annual General Meeting, at 6.30 p.m.

Birmingham Graduate 7 p.m. April 12th
James Watt Memorial Institute.
Graduate Papers Evening.
"Starting Your Own Business" by T. B. Wilcox, A.M.I.Prod.E., also "Cutting Tool Lubrication" by E. J. Lownes, A.M.I.Prod.E., A.F.Inst.Pet.
Wolverhampton Graduate 7 p.m. April 20th
Wolverhampton and Staffs. College of Technology, Wulfruna Street, Wolverhampton.
"Welding of Stainless Steel" by J. A. McWilliam, T.D., M.A.

NORTHERN IRELAND REGION

Northern Ireland 7.30 p.m. April 7th
College of Technology, Belfast.
"Recent Impressions from the Soviet Union" by Dr. D. F. Galloway, Wh.Sch., M.I.Mech.E., M.I.Prod.E.

NORTH MIDLANDS REGION

Regional One Day Conference 9.30 a.m. April 23rd
Welfare Hall, Rolls-Royce Ltd., Derby.
"The Production Engineer in a Changing Economy."
Peterborough 7.30 p.m. April 20th
Conference Room, Peterscourt, Peterborough.
"Radio Isotopes in Engineering" by W. D. Busbridge, M.A.

NORTH WESTERN REGION

Regional Meeting 6.30 p.m. April 25th
Great Hall, Manchester College of Science and Technology, Sackville Street, Manchester.
"Recent Developments in the Design and Construction of Ships" by R. V. Turner, B.Sc., A.M.I.N.A.
Manchester 7.45 p.m. April 29th
Midland Hotel, Manchester.
Annual Dinner.

SOUTH EASTERN REGION

Regional Meeting 7.30 p.m. April 21st
Royal Commonwealth Society Hall, Northumberland Avenue, Strand, W.C.2.
"Modern Planning and Progress in the Building Contracting Industry" by E. W. Spencer, (Chief Planning Engineer, John Laing & Son Ltd.).
London-Brighton Group 7 p.m. April 13th
Royal Pavilion Hotel, Castle Square, Brighton.
Annual General Meeting.
"Practical Training for the Future Production Engineer" by F. W. Cooper, B.Sc., M.I.Mech.E., M.I.Prod.E., and E. R. Cash, A.M.I.Prod.E.
London Graduate 7.15 p.m. April 12th
10 Chesterfield Street, Mayfair, London, W.1.
Lectures by Graduates.
Luton Graduate 7.30 p.m. April 7th
Small Assembly Hall, Town Hall, Luton.
"Training the Engineer" by D. P. Lant, A.I.Mech.E.
Followed by the Annual General Meeting.

SOUTHERN REGION

Oxford 7.30 p.m. April 19th
Town Hall, Oxford.
"Power Factor Correction of Industrial Electricity Supplies" by R. O. M. Powell, (Chief Engineer, British Insulated Callender Cables Ltd).
Joint Meeting with the I.E.E.
(Provisional Lecture, the date may be changed to 13th April.)

SOUTH WESTERN REGION

Western 7.15 p.m. April 6th
Small Lecture Theatre, Faculty of Engineering, Bristol University.
"Specialist Techniques in Aircraft and Engine Production" by L. R. Benton, A.M.I.Prod.E., (Works Manager at Bristol Aircraft Ltd.) and D. F. B. Tedds, F.I.M., (Foundry Manager of Bristol Siddeley Engines Ltd.).
Western Graduate 7.30 p.m. April 11th
Small Lecture Theatre, Faculty of Engineering, Bristol University.
"Research for Consumers, New Aims, New Methods" by J. G. S. H. Mitchell, M.A.(Oxon.).

MAY, 1960

NORTH WESTERN REGION

Manchester 7.15 p.m. May 6th
Midland Hotel, Manchester.
Regional Dinner.

PRODUCTION APPOINTMENTS

BULLETIN No. 79

APRIL 1960

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to: The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROvenor 5254).

RATES — Run-on, per appointment: £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof. Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

Displayed: £6 per single-column inch (column width 3½ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch. Agency discount on displayed advertisements 10%.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. *Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.*

PERSONNEL ADMINISTRATION LIMITED MANAGEMENT CONSULTANTS

Our Appointments Division has been asked to advise on the following post:-

Chief Production Engineer

for an already substantial but rapidly expanding engineering company engaged in the fabrication and works assembly of heavy continuous process plants. He will be responsible for the entire production engineering function including process planning, method development, work study and jig and tool design, and will direct a staff of 25 engineers. Candidates, aged 32-47, should be graduate or professionally qualified engineers with experience of pressure vessels and metal fabrication. Drive and ingenuity are required to meet customers' individual requirements, and above all, the administrative ability to develop this senior management post, which offers an excellent salary and prospects. (Ref. 246 D/PE).

The identity of candidates will not be revealed to our clients without their prior permission.

For the convenience of clients and candidates we have Regional Offices in Glasgow, Manchester, Bristol and Birmingham but, in the first instance, applicants should forward brief details, quoting the reference number, to:-

PERSONNEL ADMINISTRATION LIMITED
APPOINTMENTS DIVISION
2 ALBERT GATE, LONDON, S.W.1.

Senior Machine Loader. Underwood Business Machines Limited require, for their modern South Coast factory, a man with production control experience, drive and initiative to fill this important vacancy. Previous knowledge of loading for batch production desirable. Excellent prospects for advancement to management level. Apply: Personnel Manager, Underwood Business Machines Limited, Crowhurst Road, Hollingbury, Brighton, Sussex.

Experienced Sales Engineers required for territories in Midlands, London and Southern England by importers of German machine tools of world-wide renown. Applicants must be well-connected and possess good machine tool background. Excellent prospects, salary, car and expenses, non-contributory pension and life assurance scheme. Apply giving full details of career to date. Box No. 1934, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Assistant Works Manager. Engineer required (H.N.C. or B.Sc. standard) works-trained with knowledge of costing and planning for subsidiary works at Brentford, Middlesex, of medium-sized group of companies manufacturing high-class small tools. Group superannuation scheme and excellent prospects of advancement. Age approximately 28-32. Write to: Box No. 1935, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1, stating experience, salary expected, etc.

Assistant to Production Director, for light to medium engineering company in Cheltenham. Qualifications H.N.C. in mechanical or production engineering or equivalent with production experience and practical approach. Age range 25-32 years. Non-contributory pension scheme. Please write giving full details of experience to: Box No. 1941, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

HARVEY

WORK STUDY ENGINEER

A trained man is required for work study in Departments engaged mainly on metal sheet and plate jobbing work. Applicants should have workshop experience, preferably including welding, and be of O.N.C. or equivalent standard. Permanent position offering scope for advancement. Superannuation scheme, etc.

Apply stating age and giving full details of experience and qualifications, to The Personnel Manager, G. A. Harvey & Co. (London) Ltd., Woolwich Road, Charlton, London, S.E.7.

MANAGER

£3,000 to £4,000

An outstanding opportunity exists within a large group of engineering companies of international repute for an engineer to take control of one of the Group's manufacturing organisations.

This is a high level appointment which will demand qualities of leadership and administrative ability.

Applicants must have had a sound workshop training and be thoroughly familiar with the latest practice in precision machinery, assembly and allied processes.

Expert knowledge of production control and modern factory organisation procedures is essential. These responsibilities would include all aspects of factory administration including labour relations.

Preference will be given to candidates with senior management experience in a similar position.

Applicants who are not already in receipt of a salary of £3,000 per annum are unlikely to have the necessary qualifications.

If you are interested we would like to hear from you.

Please reply in confidence to: Box PE 1029 LPE, Romano House, 399 - 401 Strand, London, W.C.2.

Senior Jig and Tool Designer required by diesel engine manufacturing Company. The successful candidate must be able to design and detail all types of tooling for the manufacture of diesel engines. Interesting work in a progressive factory. Excellent conditions of service. Salary according to ability and experience. Apply to: The Personnel Manager, Petters Limited, Staines, Middlesex.

Sales Manager for medium-sized tool making Company in London area which is expanding into special purpose machines and attachments, to take over and organise sales throughout England, Scotland and Wales. This position offers a good salary, car and pension scheme with excellent prospects to a man who is keen and enthusiastic and who should be between the ages of 28 - 40 and have a thorough knowledge of tools, gauges and machines. Write stating age, previous experience and technical qualifications to: Box No. 1937, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

PRODUCTION ENGINEER

A **PRODUCTION ENGINEER** is required to join the Engineering Department of a large Integrated Steel Plant.

Initially he will work closely with a Management Consultant in the investigation of a number of productivity and maintenance problems.

Later he will be required to lead a small team of Productivity Engineers in providing a service to the Engineering Department.

Applicants should be aged between 28 - 35 years, and possess an Engineering Degree or equivalent qualification and have had several years experience as a Production Engineer.

A four figure salary will be paid according to qualifications and experience.

Applications, in writing, giving full details of age, qualifications and experience, should be addressed to **URWICK, ORR & PARTNERS LIMITED**, St. Paul's House, St. Paul's Street, Leeds, 1, quoting reference GM/1383 on the envelope.

Initiative for the development of production methods

Drive for steering a project through from initiation to production

Adaptability for work with unconventional materials

are some of the qualities we are seeking in an experienced **PRODUCTION DEVELOPMENT ENGINEER** who can find an opportunity well above the average in our

SINTOX ENGINEERING CERAMICS DIVISION

The appointment involves responsibility for the control of staff and the operation of a small pilot plant with its own tooling section. Experience with ceramics or non-metallic materials advantageous. We shall be pleased to hear from men who can claim these attributes, plus suitable experience and qualifications (minimum H.N.C. Mechanical). There is a good superannuation scheme, and the salary offered will accord with the duties and responsibilities involved.

Please write to the Personnel Manager
LODGE PLUGS LIMITED · RUGBY

CHIEF PRODUCTION ENGINEER

A rapidly expanding organisation in the Midlands engaged in the production of diesel engines requires a Chief Production Engineer who will be responsible directly to the Works Director. The successful applicant will assume complete responsibility for the Production Engineering Department comprising sections dealing with Production Planning, Jig and Tool Design, Methods Engineering, Work Study and investigation into new machinery and processes.

Applications are invited from qualified Production Engineers who consider that their experience and ability are commensurate with the appointment and who are in the age range 32-45. The position is a responsible one and the right man will have every opportunity to progress into general management. Starting salary will be in the range £1,250 - £1,750 per annum.

Applications, giving details of age, experience, positions held and salaries should be sent to **URWICK, ORR & PARTNERS LTD.**, who have been asked to advise on this appointment, at **Urwick House, 14 Hobart Place, London, S.W.1**, quoting reference **THA/51387** on the envelope.

Works Manager. London firm who require to strengthen management are looking for first-class practical engineer with wide experience of single-spindle Swiss and German screw machines to take charge of automatic shop. Age 35-45; must have sound technical knowledge of manufacturing techniques in this field, coupled with administrative skill and ability to obtain economic production. Several years' management experience would be an advantage and preference will be given to candidates who possess H.N.C. The position is one of high responsibilities and there are excellent prospects for an ambitious man to become a Director and to grow with the Company. Salary according to qualifications plus bonus, pension scheme, etc. Please send full particulars of education, training and experience stating age and present salary, to: **Box No. 1940, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.**

Senior Product Design Draughtsman, required by Charles Colston Limited at their factory at High Wycombe, Bucks., at which they are manufacturing domestic appliances. Applicants should be over 28, have served a general engineering apprenticeship and have H.N.C. and A.M.I.Prod.E. or equivalent qualifications. They should also have up-to-date knowledge and experience of materials and techniques required for economic mass production in light electro-mechanical engineering. The appointment is a responsible one, with monthly staff status, and the salary will be commensurate. The Company is expanding and there are good prospects. Please write with brief particulars only, including age and present salary, to the Works Manager, Charles Colston Limited, Wellington Road, High Wycombe, Bucks., marking the envelope "Confidential Ref. DCT".

Senior Tool Designer required, preferably with experience of the design of tools, jigs and fixtures for batch production of electronic equipment. Sound practical experience first consideration. This is a responsible position with a commensurate salary, and a Pension Scheme is in operation. Apply: Personnel Officer, Airmec Limited, High Wycombe, Bucks.

PRODUCTION DEVELOPMENT

ENGINEERING SUPERINTENDENT

Applications are invited for appointment as Production Development Engineering Superintendent in a light electro mechanical engineering company in the South Midlands area. The vacancy is created by the rapid growth of a company which has increased its output tenfold during the past decade.

The post requires considerable experience of line assembly techniques, a specialist knowledge of all types of machine tools, and sound press work experience.

The successful applicant, who should be of Higher National Certificate level, and presently holding a similar position, will be required to lead and inspire an already established department engaged in investigation of pre-production and current methods problems. Proven ability in "trouble shooting" is essential.

Salary will be not less than £1,250 per annum and assistance can be given with housing, if required. Our own staff have been informed of this vacancy and invited to apply.

Applications, giving details of qualifications, experience, and present salary, should be addressed to: **The Personnel Manager, Box No. 1942, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.**

BRUSH ELECTRICAL ENGINEERING COMPANY LIMITED, LOUGHBOROUGH.

This Company requires . . .

SENIOR METHODS ENGINEERS

- ★ for either Machine Shops
- ★ or Assembly Divisions engaged in the manufacture of a wide range of medium/heavy electrical machinery
- ★ or Division engaged in the manufacture of various types of electrical control gear.

The duties of the engineers will include:-

- ★ Examination of initial drawing office schemes and designs for production.
- ★ Conversion of research results to production.
- ★ Examination, recommendation and implementation of new techniques and methods.

Applications, which will be treated in the strictest confidence, should give details of qualifications and experience in chronological order and should be addressed to the

**Chief Personnel Officer,
Brush Electrical Engineering Company Limited,
Loughborough, Leicestershire,
and should quote reference: PL 9047.**



PARKINSON COWAN APPLIANCES LIMITED

A Member of the Parkinson Cowan Group

This old established progressive Company manufacturing domestic appliances wishes to appoint a further two **METHOD STUDY ENGINEERS**.

The minimum academic requirement for both is H.N.C. or equivalent, but:

- (a) One must have a sound theoretical knowledge and practical experience on steel presswork up to 500 tons and welding fabrication.
- (b) The other will be required to have theoretical and practical experience in one or more of the following: work handling; domestic appliances (or similar) assembly; vitreous enamelling and painting.

The duties of these Engineers will be to reduce manufacturing costs and remove production bottlenecks using Work Study techniques.

The appointments are permanent and pensionable and carry a generous salary. Applications should be marked "Confidential", and quote W.M. 99, and be addressed to **The Personnel Manager, Parkinson Cowan Appliances Ltd., Station Road, Stechford, Birmingham, 33.**

The Company also has a number of vacancies for shop floor production **METHODS ENGINEERS** preferably between the ages of 28-45. In each case H.N.C. or equivalent is essential together with experience in one or more of the following specialist fields:

- (a) Finishing processes, vitreous enamelling, metal preparations and painting, plating, etc.
- (b) The assembly of domestic appliances of all kinds with particular reference to gas cookers.
- (c) Automatic lathes and the light machining of small components in large batch quantities.

The Engineers will be required to deal with problems as they arise on the factory floor, maintain work standards of quality and cost on a progressive programme of cost and scrap reduction.

Permanent and pensionable positions. Apply in confidence to **The Personnel Manager, Parkinson Cowan Appliances Ltd., Station Road, Stechford, Birmingham, 33.**

Production Engineer. Nut and bolt manufacturing specialists require Production Engineer initially to install new plant for the cold forming of nuts, to train personnel to operate such plant and ultimately to organise production in the present automatic bar machine shop. This new position, which is pensionable, requires a young man of initiative, age 27-35 years, having practical knowledge of nuts and bolts. Experience in time work, method study, and tool design desirable. Applications from persons having this experience or similar will be treated in strictest confidence. Replies to: Personnel Director, Vislok Engineering Ltd., Market Harborough, Leics.

AMPEX ELECTRONICS LIMITED

Applications are invited for the post of **MANUFACTURING MANAGER**

in this expanding company, which is a member of the Ampex International organisation.

The Group specialises in the development, production and marketing of high-grade magnetic recording equipment for the professional, broadcasting, scientific and computer markets.

The successful applicant will have good experience at managerial level in the production organisation of a plant concerned with the efficient batch production of multiple products in the electronic and electro-mechanical fields. He will be required, now and in the future, to organise and expand existing facilities to meet growing production requirements for the home and overseas markets.

Salary will be commensurate with the responsibilities of the post and the experience of the man filling it. A good Pension and sickness scheme will be available.

Apply, in confidence, to: **The Managing Director, Ampex Electronics Ltd., Arkwright Road, Reading, Berks.**, stating age, education, experience, qualifications and present salary.

Production Engineer. Machine Tool Manufacturers and Production Consultants engaged in the supply and installation of the most modern automatic production methods and equipment in the U.K. and on the Continent, require a Production Engineer, aged about 30, for technical liaison between customers and manufacturers. The position offers unique opportunity for acquiring experience in latest developments in production. Essential: Practical experience of metal manufactures and most types of machining and processing. Knowledge of factory costing. Willingness to travel. Desirable: Some knowledge of German or Italian. London base. Salary commensurate with experience, plus car and expenses, offered to successful applicant. Apply: Box No. 1939, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

INDUSTRIAL CONSULTANCY

Applications are invited from:

1. Qualified technician with practical experience in work study, departmental and equipment layout, incentives, etc. Age 26-30.
2. Fully experienced consultant, able to undertake or control personally all facets of briefs. Age 30-40. Directorship available when ability proved.

Unlimited scope in either position.

Prepared to travel United Kingdom.

Apply in writing to: **Managing Director, Loweth & Partners (Industrial Consultants) Ltd., 48 Brook Street, London, W.1.**

TIME AND MOTION STUDY ENGINEERS

Applications are invited from
YOUNG MEN,
age over 21

for vacancies as Trainee Time and Motion Study Engineers. Good education and the possession of a National Certificate essential. Engineering background desirable.

There are also vacancies for experienced Time and Motion Study Engineers.

The posts are permanent and pensionable and offer excellent opportunities. Five day week.

Apply in writing, stating age, qualifications and experience to the:

Personnel Manager,

JOSEPH LUCAS (ELECTRICAL) LTD.,

Great King Street, Birmingham, 19.

quoting reference PM/TS/429.

Works Manager. Age 30-48, with experience of production engineering, production control and manufacture of electrical and mechanical precision products. Applicants should have served a full apprenticeship, for preference hold either A.M.I.E.E. or A.M.I.Mech.E., and have at least five years' executive works experience. Applications, which will be treated in confidence, should be addressed to the Appointments Secretary, ref. 122/25, Industrial Administration Limited, Management Consultants, 18 Thurlow Place, London, S.W.7.

WILMOT BREEDEN

PROCESS PLANNING ENGINEERS

Applications are invited for the above posts from men who are seeking positions with a well established Company. Preference will be given to men who have:-

1. Sound knowledge of presswork techniques.
2. At least O.N.C. in Mechanical Engineering.
3. Have served a recognised apprenticeship.

In return the Company offer:-

1. Attractive salary.
2. 5-day week.
3. Excellent pension scheme.
4. Good canteen and sports and social facilities.

Applications should be made, in writing in the first instance, to the Personnel Manager, Wilmot Breeden Ltd., Goodman Street, Birmingham, 1.

UNIVERSITY OF LONDON IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Lecturer in Industrial Engineering

Applications are invited for the above post. Candidates should have a good Honours Degree, some professional and preferably also research experience in industrial engineering subjects, such as work study, plant layout, production and inventory control and application of operational research techniques. The successful applicant will be required to assist in teaching at undergraduate and post-graduate levels and in research. Salary in range £900 X 50 — £1,350 (efficiency bar) X £75 — £1,650 per annum, plus £60 per annum London Allowance. Starting point dependent upon qualifications and experience. F.S.S.U. benefits and Family Allowances. Applications should be sent to the Head of the Mechanical Engineering Department, Imperial College of Science and Technology, London, S.W.7.

Personal Assistant to Manager of Light Steel Plate Fabrication Department required. Preference will be given to applicants who have served an engineering apprenticeship and have H.N.C. in Production Engineering or its equivalent. Duties will be concerned primarily with production control on small batch jobbing. Permanent position with good prospects. Apply giving full details of age, experience and qualifications to the Personnel Manager, G. A. Harvey & Co. (London) Ltd., Woolwich Road, Charlton, London, S.E.7.

Production Engineer required by general engineering Company employing 500 personnel and situated in East Essex. The successful applicant must be a qualified Production Engineer with at least five years' practical production engineering experience in general engineering, preferably on batch production. This post offers excellent prospects to a young man possessing initiative, drive and enthusiasm. Reply stating age, experience, and salary to: Box No. 1938, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

PROCESS PLANNING SUPERINTENDENT

Applications are invited for appointment as Process Planning Superintendent in a light electro mechanical engineering company in the South Midlands area. This vacancy is created by the rapid growth of a company which has increased its output tenfold during the past decade.

A thorough knowledge of press work, welding, bar automatics, flow line assembly techniques, and a sound engineering background is essential. The successful applicant, who should be of Higher National Certificate level, will be required to lead an already established department and be capable of planning tooling for mechanical metal fabrications to economic advantage.

Salary will be not less than £1,250 per annum and assistance can be given with housing, if required. Our own staff have been informed of this vacancy and invited to apply.

Applications giving details of qualifications, experience, and present salary, should be addressed to The Personnel Manager, Box No. 1943, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

ENGLISH ELECTRIC

Whetstone, near Leicester

Openings have arisen in the New Development and Process Department for:

A MACHINE TOOL DESIGNER

to tackle a whole range of problems associated with the production of

NUCLEAR REACTOR FUELLING MACHINERY STEAM TURBINES AND GAS TURBINES

Applications are invited from professionally qualified engineers with experience in the design and development of special purpose machine tools.

A BUILDING & SERVICES ENGINEER

to work on the initiation, layout and specification of new building projects and services. The successful applicant will also have some responsibility for the vetting of design schemes and construction projects.

Applicants should possess suitable qualifications in this field together with appropriate professional training.

The posts are permanent and pensionable and normal staff facilities are available.

Please write (quoting Ref. PE 1896K) to:

TECHNICAL STAFF OFFICER, DEPT. C.P.S., MARCONI HOUSE, 336-337 STRAND, LONDON, W.C.2

Technical Sales. A man required who has a mechanical engineering background with preferably some sales experience. Our main product is the manufacture and supply of steel strapping equipment of all types, both manual and automatic. The main purpose of this appointment is to assist the Sales Representatives in applications where our standard equipment requires some modification or additional plant to suit the customer's requirements. A current driving licence and willingness to travel is essential. We are a rapidly expanding organisation and have a generous superannuation scheme. Please write giving age, experience and salary expected to: Box No. 1936, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Works Manager. A well-established medium-sized light engineering company specialising in the manufacture of domestic machines and pressed steel components for industry seek a Works Manager to take charge of production at its Birmingham factory at a salary not less than £1,500. This post offers expanding opportunities to a thoroughly practical engineer with administrative common sense and vision, aged 30-45, educated to at least H.N.C. standard, well versed in modern production techniques and with recent managerial experience in light engineering. Write briefly in strictest confidence. The Managing Director (RW.59) Executive Appointments Limited, 78 Wigmore Street, London, W.1.

CITY OF SHEFFIELD EDUCATION COMMITTEE, COLLEGE OF TECHNOLOGY

Department of Engineering

SANDWICH COURSE IN THE ENGINEERING OF PRODUCTION

Department of Science

SANDWICH COURSE IN METALLURGY

Three-year Sandwich Courses leading to Higher National Diplomas in The Engineering of Production and in Metallurgy are in operation. In each year of the Course, students will spend six months full-time in College and six months in Industry. For entry to the Courses, the required qualification will be either a good Ordinary National Certificate or appropriate passes at Ordinary and Advanced levels in the General Certificate of Education.

Full particulars may be obtained from the Registrar, College of Technology, Pond Street, Sheffield, 1, to whom early application for admission to the Courses in September, 1960, should be made.

Education Office,
Sheffield, 1.

T. H. TUNN,
Director of Education.

**UNIVERSITY OF BIRMINGHAM
INSTITUTE FOR ENGINEERING
PRODUCTION**

A two-week residential course on
Metal Cutting Principles
will be held from July 4th - 15th, 1960
Course Tutor: Professor Milton C. Shaw.
Head of the Metals Processing Division,
Massachusetts Institute of Technology, U.S.A.
Visiting Professor of Engineering Production,
University of Birmingham.
(who will be assisted by guest lecturers and
University staff).
Course Fee (inclusive of residence) 60 guineas
Applications should be made to:
Professor N. A. Dudley,
Director of the Institute for Engineering
Production,
"Southfield," 16 Norfolk Road,
Edgbaston, Birmingham, 15.

WILMOT BREEDEN

DRAUGHTSMEN

Due to an extensive development programme an old established Company near the City Centre invites applications from experienced men for work in connection with press tool design. There are excellent opportunities of advancement for the right men.

Although preference will be given to men who have at least O.N.C. in Mechanical Engineering, we rate experience of press tool design and jig and fixture work equally high. Attractive salary, 5-day week and an excellent pension scheme are included in the staff conditions of service. Apply, **Personnel Manager, Wilmot Breeden Ltd., Goodman Street, Birmingham, 1.**

**Braintree College of Further Education,
East Street, Braintree, Essex.**

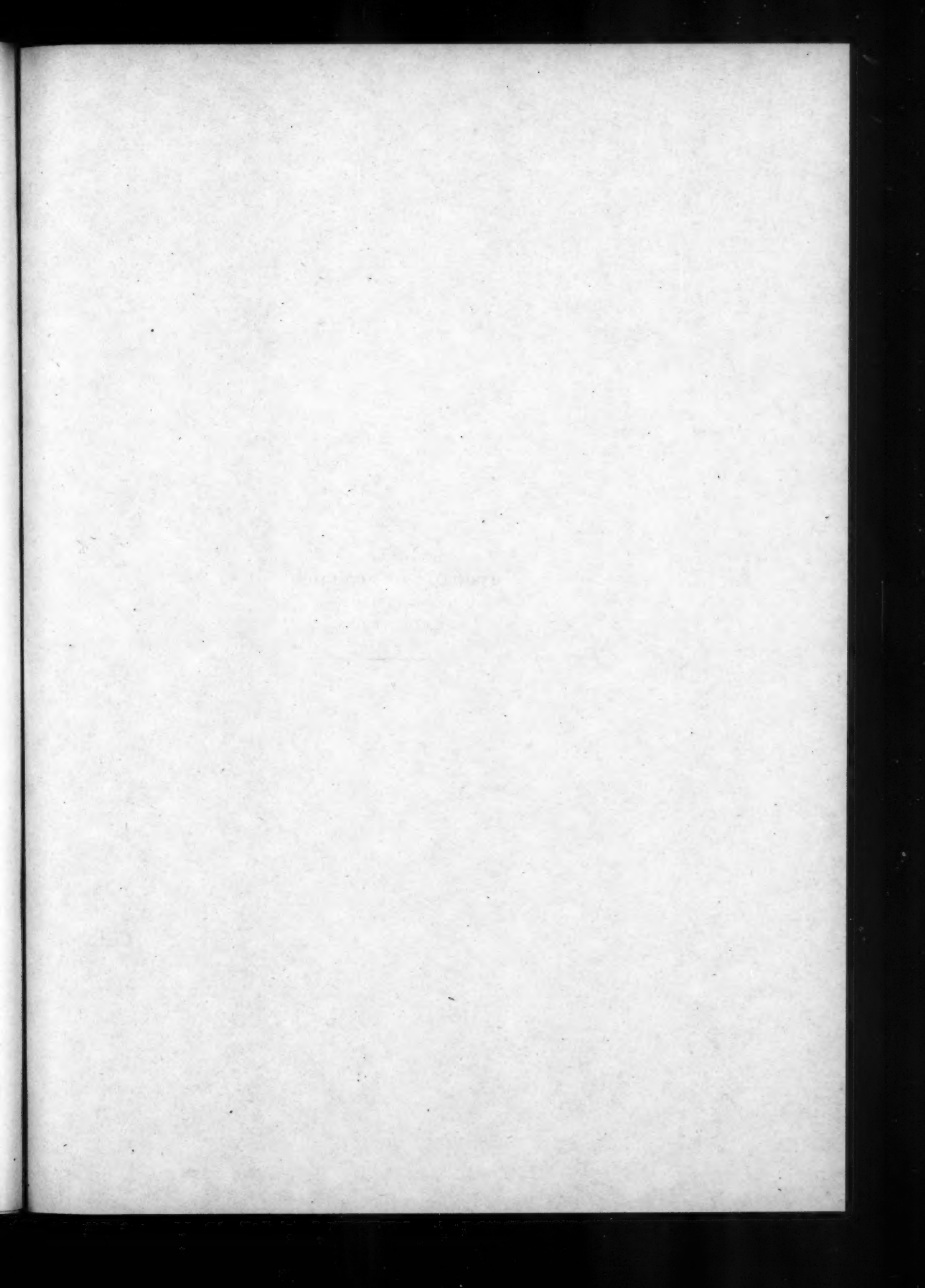
Assistant Grade A, for Workshop Practice and Machine Drawing. Applications are invited for the additional post of Assistant, Grade A, for Workshop Practice and Machine Drawing, which will be available from 1st September, 1960. Candidates should hold the Higher National Certificate in Mechanical or Production Engineering. Industrial experience is essential. Salary within scale £520, rising to £1,000 per annum. Commencing salary will have regard to previous experience. Application forms and further particulars (stamped, addressed foolscap envelope) from the Principal at the College.

Birkenhead Technical College.

Lecturer or Senior Lecturer in Production Engineering depending on qualifications and experience of candidate. Applicants should be Honours Graduates of a British University and corporate members of a professional institution with a wide industrial experience coupled with teaching experience in a major College of Further Education. Salary in accordance with the Burnham Technical scale. 1959. Senior Lecturer—£1,550 × £50 - £1,750 per annum. Increments above the minimum of the salary scale may be awarded in respect of approved industrial and/or research experience. Further particulars and forms of application may be obtained from: H. Glyn Wilkinson, Director of Education, 63 Hamilton Square, Birkenhead, to whom completed applications should be returned by the 13th April, 1960. Please quote Ref. P.

**Borough Polytechnic, Borough Road, London, S.E.1.
Department of Mechanical Engineering.**

Two Lecturers in Mechanical Engineering. Applicants should be University Graduates in Mechanical Engineering and have had responsible industrial research and/or teaching experience. Duties will involve advanced "sandwich" courses. Excellent opportunities and facilities for research. For one post the Lecturer will be mainly concerned with Engineering Production subjects. A Post-Graduate or professional qualification in Production Engineering would be an added qualification, together with specialised knowledge and experience in some aspect of this subject. For the other post, the Lecturer will be mainly engaged upon engineering thermodynamics and heat transfer theory, and appropriate knowledge and experience is expected. Salary (Men) Lecturers, within the range £1,408-£1,601 per annum, the point of entry on the salary scale and the maximum depending upon age, qualifications, training and experience. Further particulars and application form, which should be returned as soon as possible, obtainable from Fredk. J. Packer, Clerk to the Governing Body.



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